



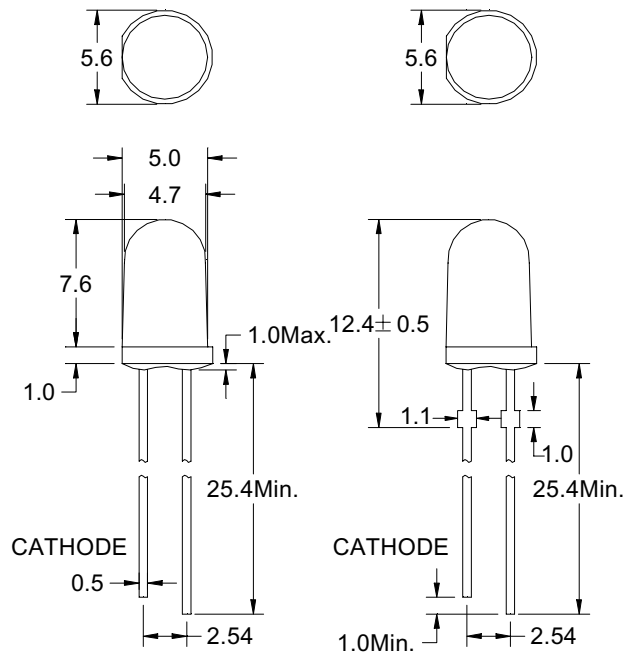
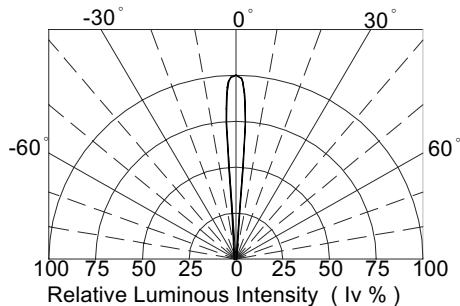
## BVU-5C14WK4-B

## PACKAGE CONFIGURATION

### DESCRIPTION

Dice Material : InGaN / GaN Blue  
Light Color : White  
Lens Color : Water Transparent  
Stand-Off P/N : BVU-5C14WK4-B R

### RADIATION PATTERN



### ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C

Tolerance ± 0.25 mm

| PARAMETER                                                         | MAX.         | UNIT  |
|-------------------------------------------------------------------|--------------|-------|
| Power Dissipation                                                 | 120          | mW    |
| Continuous Forward Current                                        | 30           | mA    |
| Peak Forward Current ( 1/10 Duty Cycle , 0.1ms Pulse Width )      | 100          | mA    |
| Reverse Voltage                                                   | 5            | V     |
| Derating Linear From 50 °C                                        | 0.4          | mA/°C |
| Operating Temperature Range                                       | -40 to + 100 | °C    |
| Storage Temperature Range                                         | -40 to + 100 | °C    |
| Lead Solder Temperature 1.6 mm Below Package 260 °C for 5 seconds |              |       |

### ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 °C

| SYMBOL         | PARAMETER       | TEST COND.             | MIN. | TYP. | MAX. | UNIT |
|----------------|-----------------|------------------------|------|------|------|------|
| V <sub>F</sub> | Forward Voltage | I <sub>F</sub> = 20 mA |      | 3.5  | 4    | V    |
| I <sub>R</sub> | Reverse Current | V <sub>R</sub> = 5V    |      |      | 10   | μA   |
| 2θ 1/2         | Viewing Angle   | I <sub>F</sub> = 20 mA |      | 10   |      | Deg  |

### BIN GRADE LIMITS ( I<sub>F</sub> = 20 mA ) CHROMATICITY COORDINATES

|    |   |      |      |      |      |    |   |      |      |      |      |
|----|---|------|------|------|------|----|---|------|------|------|------|
| WA | x | 0.26 | 0.26 | 0.29 | 0.29 | WC | x | 0.32 | 0.32 | 0.35 | 0.35 |
|    | y | 0.19 | 0.23 | 0.27 | 0.23 |    | y | 0.28 | 0.32 | 0.35 | 0.31 |
| WB | x | 0.29 | 0.29 | 0.32 | 0.32 | WD | x | 0.35 | 0.35 | 0.38 | 0.38 |
|    | y | 0.23 | 0.27 | 0.32 | 0.28 |    | y | 0.31 | 0.35 | 0.4  | 0.36 |

One delivery will include three different ranks of products.

Measurement Uncertainty of the color coordinates : ±0.02

### BIN GRADE LIMITS ( I<sub>F</sub> = 20 mA ) LUMINOUS INTENSITY / mcd

| Bin  | M    | N    | O    | P    | Q    | R     |
|------|------|------|------|------|------|-------|
| Min. | 2180 | 2800 | 3600 | 4650 | 6000 | 7800  |
| Max. | 2800 | 3600 | 4650 | 6000 | 7800 | 10000 |

One delivery will include the consecutive two ranks of products.

Measurement Uncertainty of the Luminous Intensity : ± 15 %

\*Bright View reserves the rights to alter specifications and remove availability of products at any time without notice.

\*These products are sensitive to static electricity.

Caution must be taken strictly to avoid static electricity.

\*Chromaticity Coordinates , x,y is according to CIE Chromaticity Diagram base on color of lamps.

\*θ 1/2 is the off-axis angle where the luminous intensity is one half the on-axis intensity.

2002/1/16 – A